

CLAIMS

1. An electrode comprising a carbon carrying a metal and a binder.

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2. The electrode according to claim 1, which is formed on an electrically conductive substrate.

3. The electrode according to claim 2 wherein the electrically conductive substrate is made of glass, a polymer film or a metal.

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4. The electrode according to claim 1 wherein the carbon is needle-like carbon, fullerene, carbon nanotube or electrically conductive carbon black.

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5. The electrode according to claim 1 wherein the metal is at least one kind of metal selected from the group consisting of Pt, Ru, Co, Ti, Ni, Al and Au.

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6. The electrode according to claim 1 wherein the specific surface area of the carbon is equal to or larger than $100 \text{ m}^2/\text{g}$.

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7. The electrode according to claim 1 wherein the specific surface area of the carbon is equal to or larger than $300 \text{ m}^2/\text{g}$.

8. The electrode according to claim 1 wherein the amount of the metal carried by the carbon is equal to or more than 5 weight percent of the carbon.

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9. A method of forming an electrode, comprising:
forming a mixture of a carbon carrying a metal and a binder on an electrically conductive substrate.

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10. A photoelectric transfer element comprising an electrode composed of a carbon carrying a metal and a binder.

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11. The photoelectric transfer element according to claim 10 wherein a transparent conductive substrate and said electrode as a counter electrode are opposed to each other, and a semiconductor layer and an electrolyte layer are interposed between the substrate and the electrode.

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12. The photoelectric transfer element according to claim 10 wherein the element is a dye-sensitized solar cell.

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13. A method of manufacturing a photoelectric transfer element, comprising:
forming an electrode by forming a mixture of a

carbon carrying a metal and a binder on an electrically
conductive substrate.

14. An electronic device comprising an electrode
5 composed of a carbon carrying a metal and a binder.

15. A method of manufacturing an electronic
device, comprising:

forming an electrode by forming a mixture of a
10 carbon carrying a metal and a binder on an electrically
conductive substrate.